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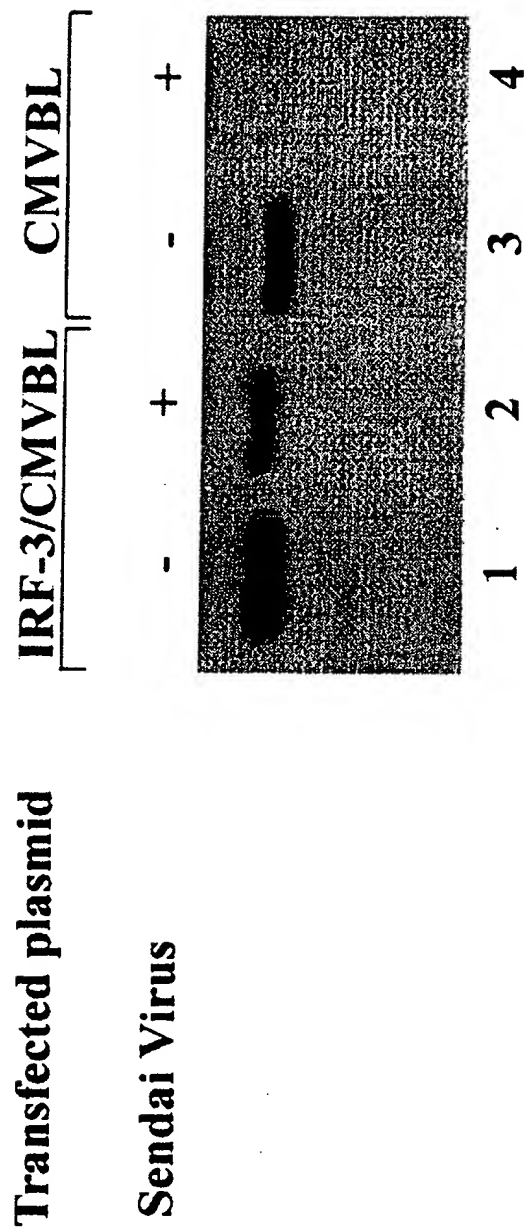


FIG. 1

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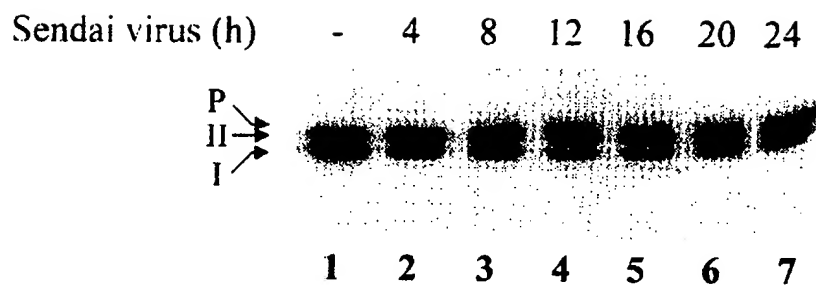


FIG. 2A

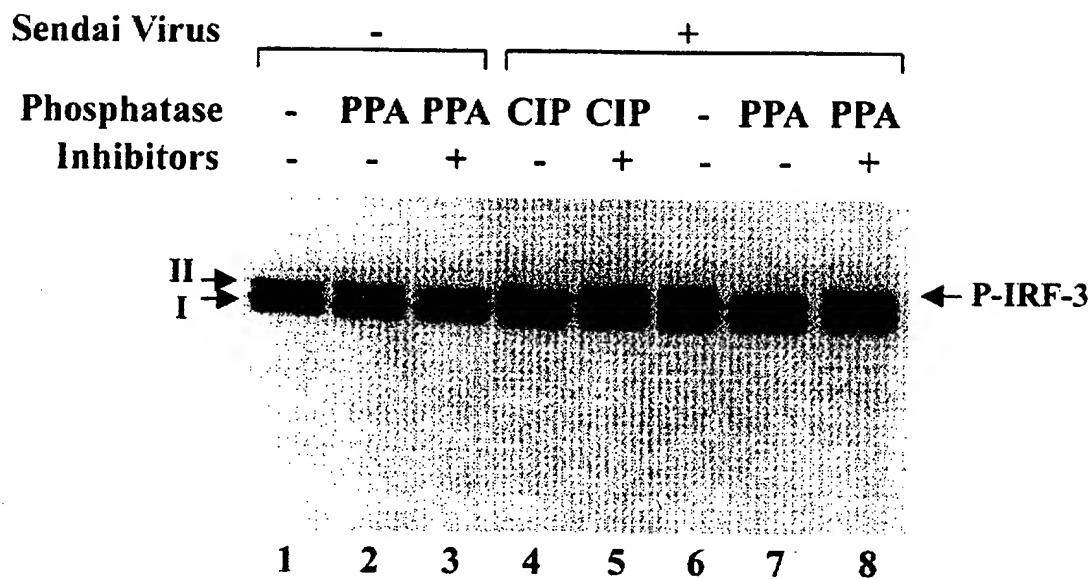


FIG. 2B

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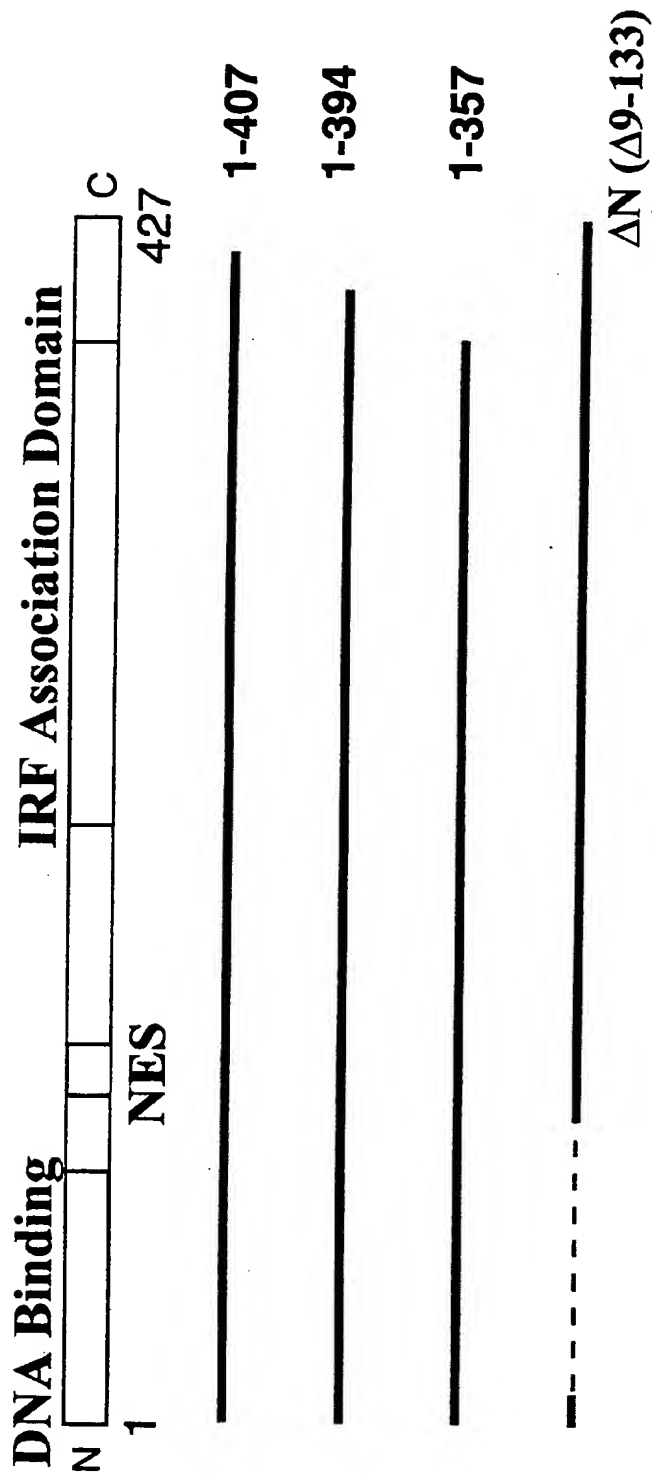


FIG. 3A

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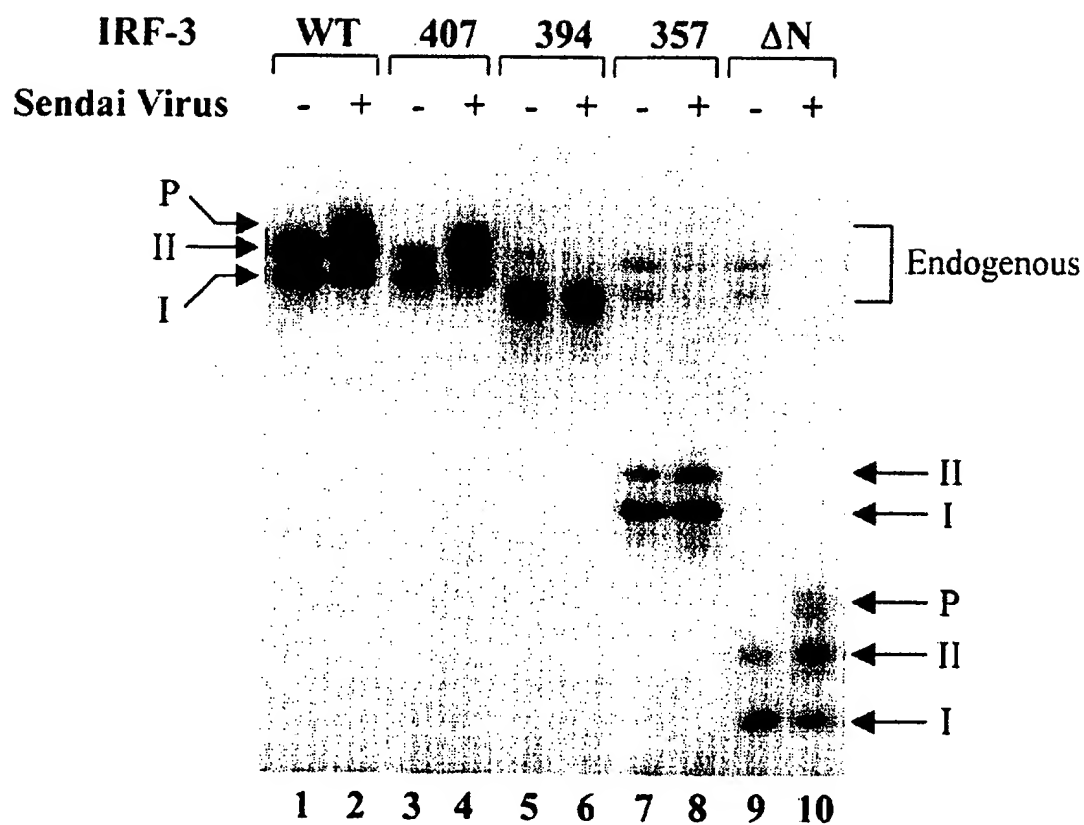


FIG. 3B

DNA Binding NES IRF Association Domain



FIG. 4A

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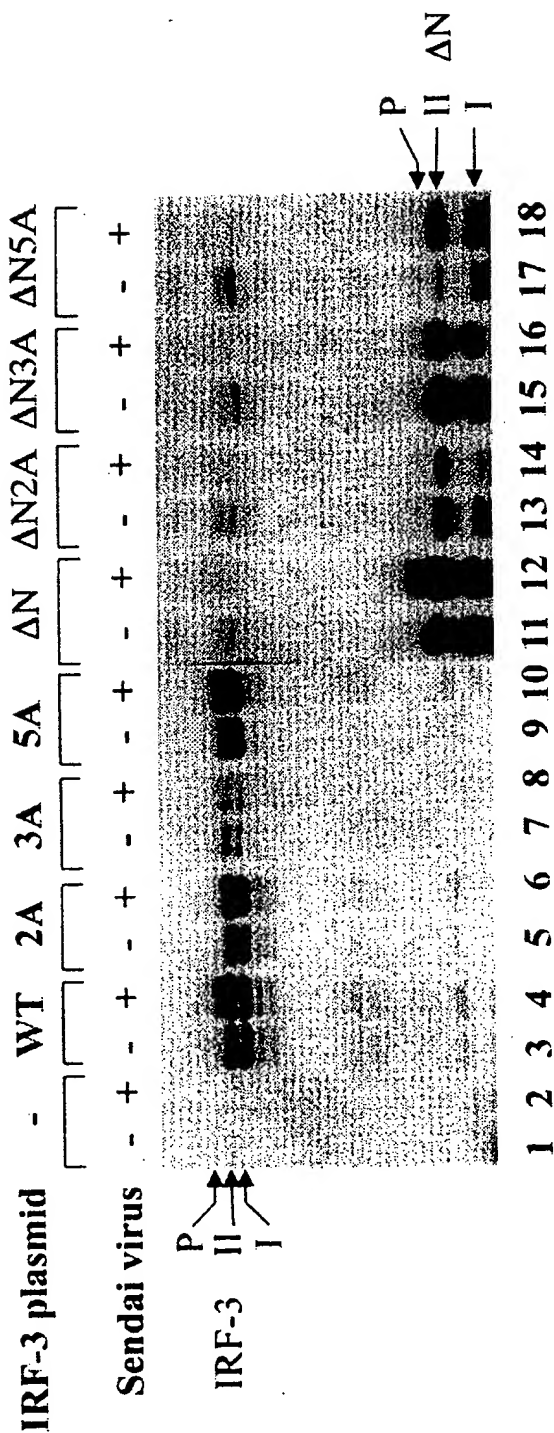
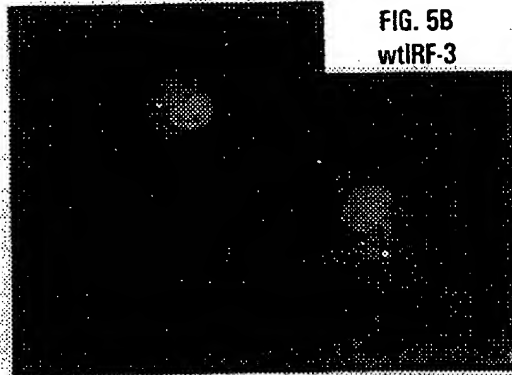
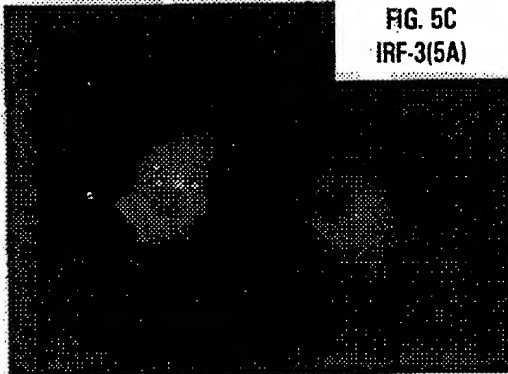
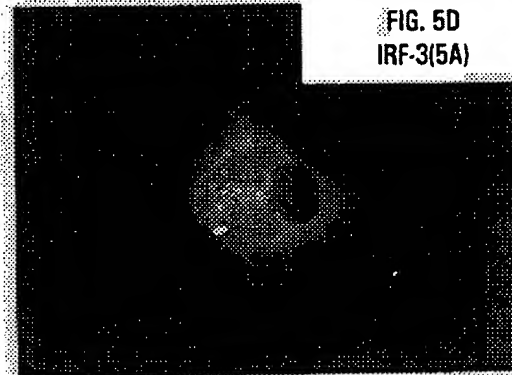
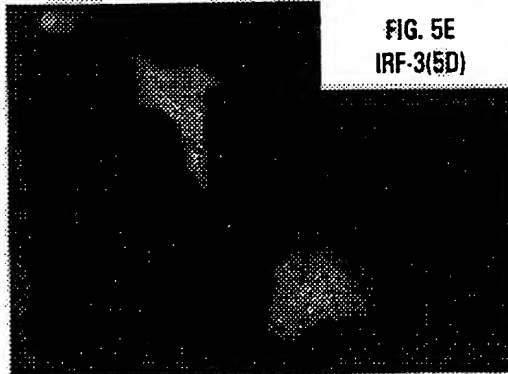
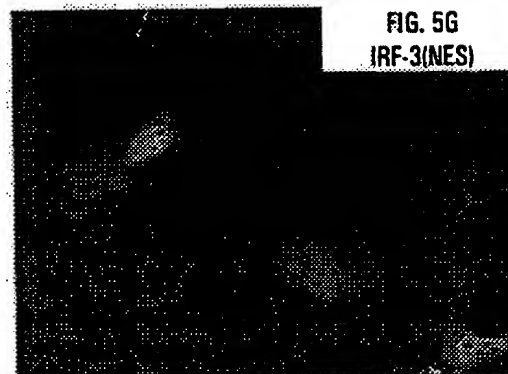


FIG. 4B

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FIG. 5A
wtIRF-3FIG. 5B
wtIRF-3FIG. 5C
IRF-3(5A)FIG. 5D
IRF-3(5A)FIG. 5E
IRF-3(5D)FIG. 5F
IRF-3(5D)FIG. 5G
IRF-3(NES)FIG. 5H
IRF-3(NES)

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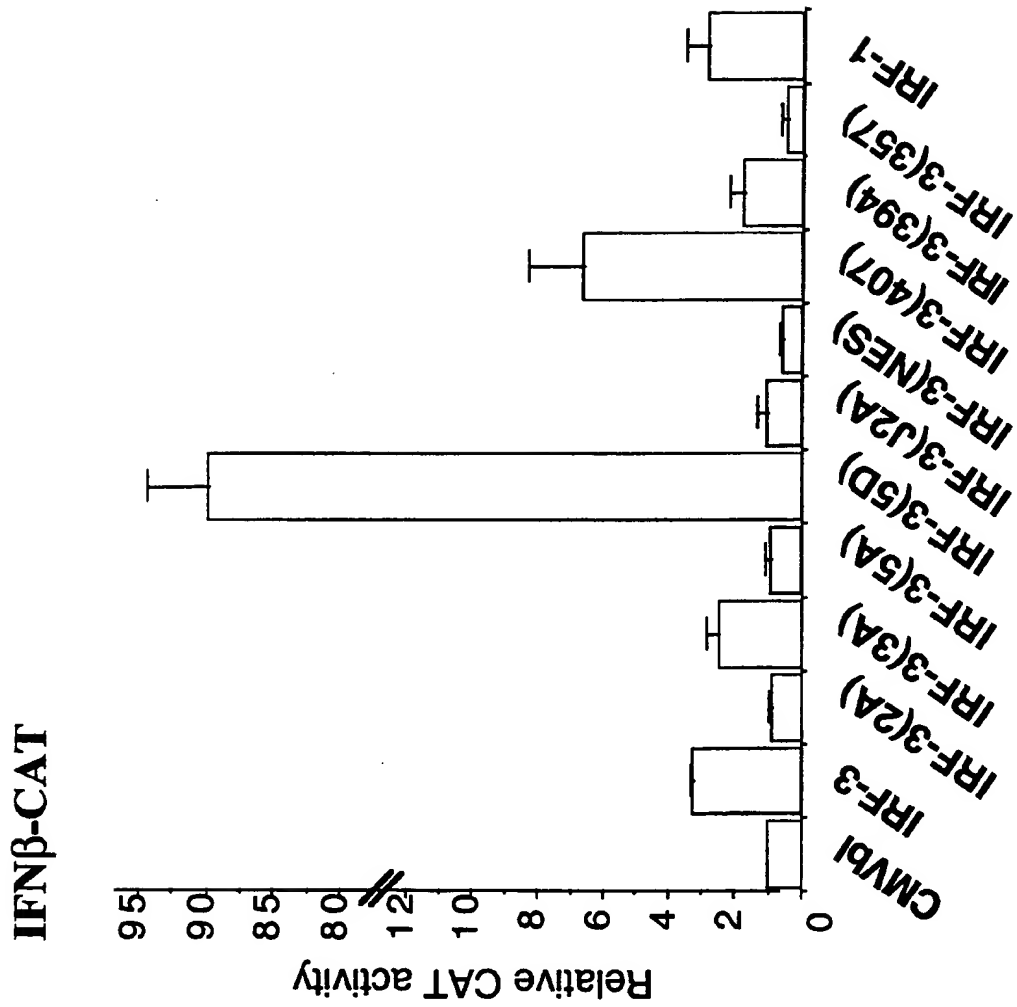


FIG. 6A

FIG. 6A: 59627560

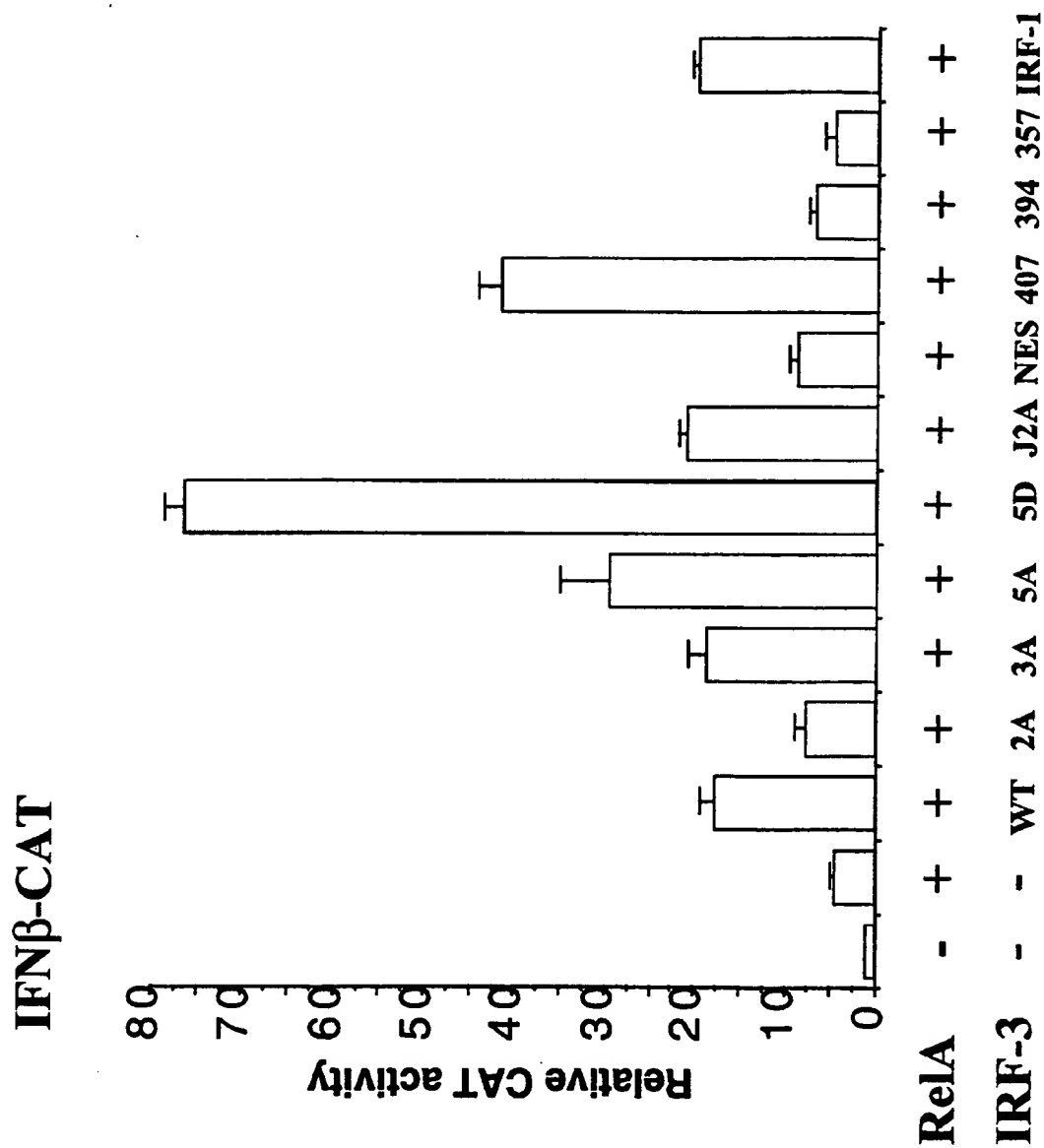


FIG. 6B

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ISG15-CAT

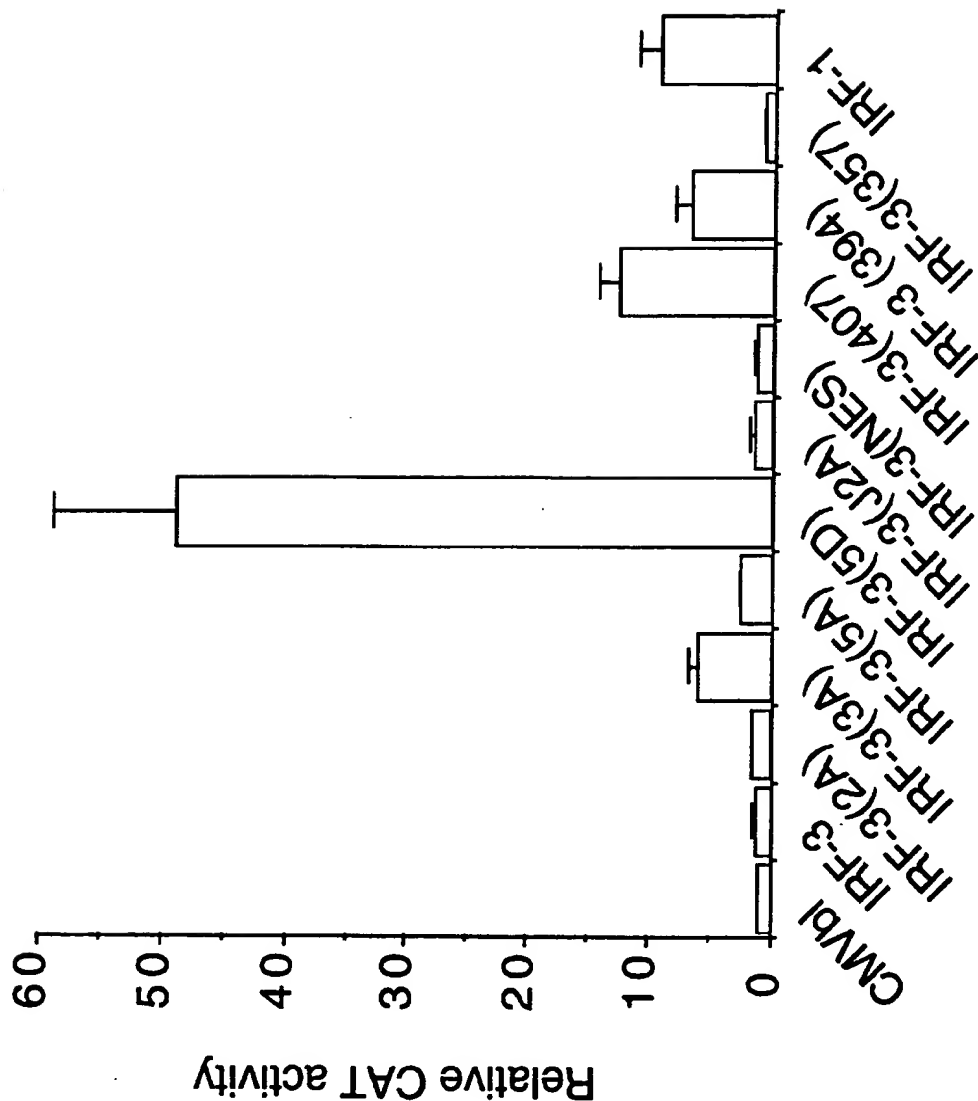


FIG. 6C

FIG. 6C: 59624960

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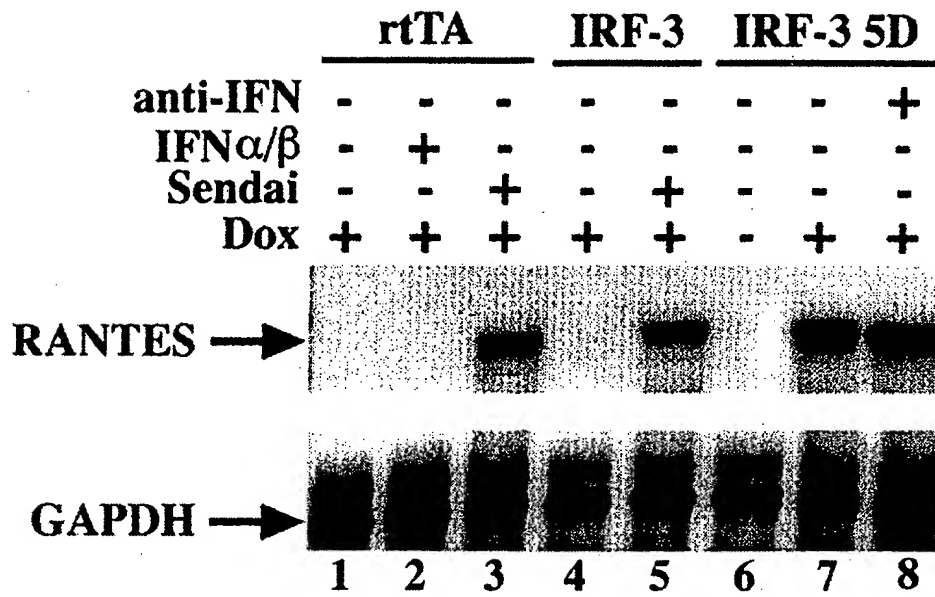


FIG. 7A

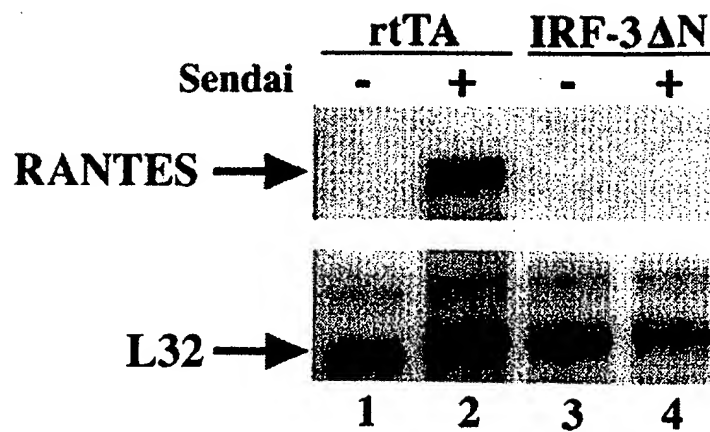


FIG. 7B

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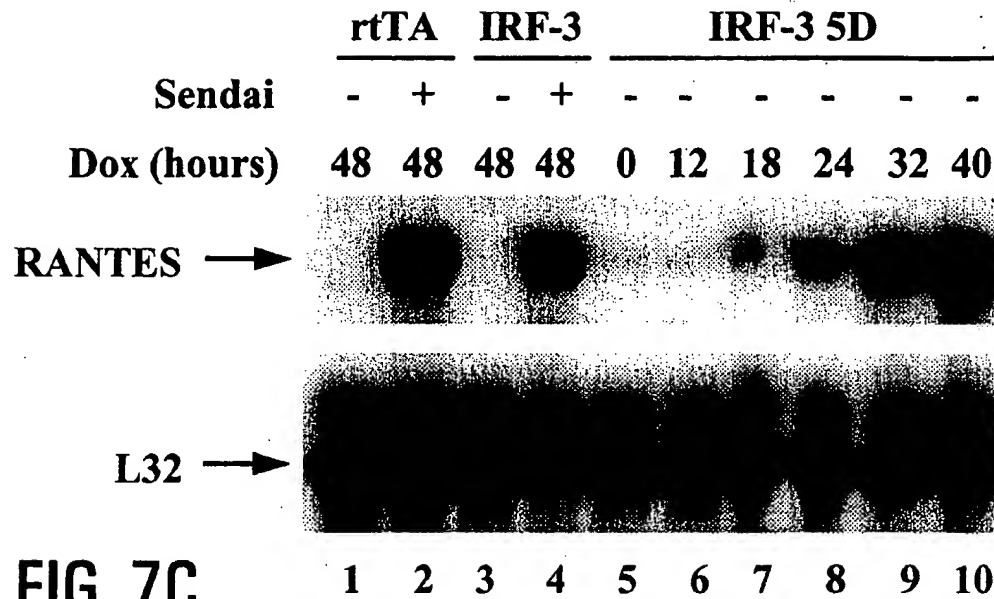


FIG. 7C

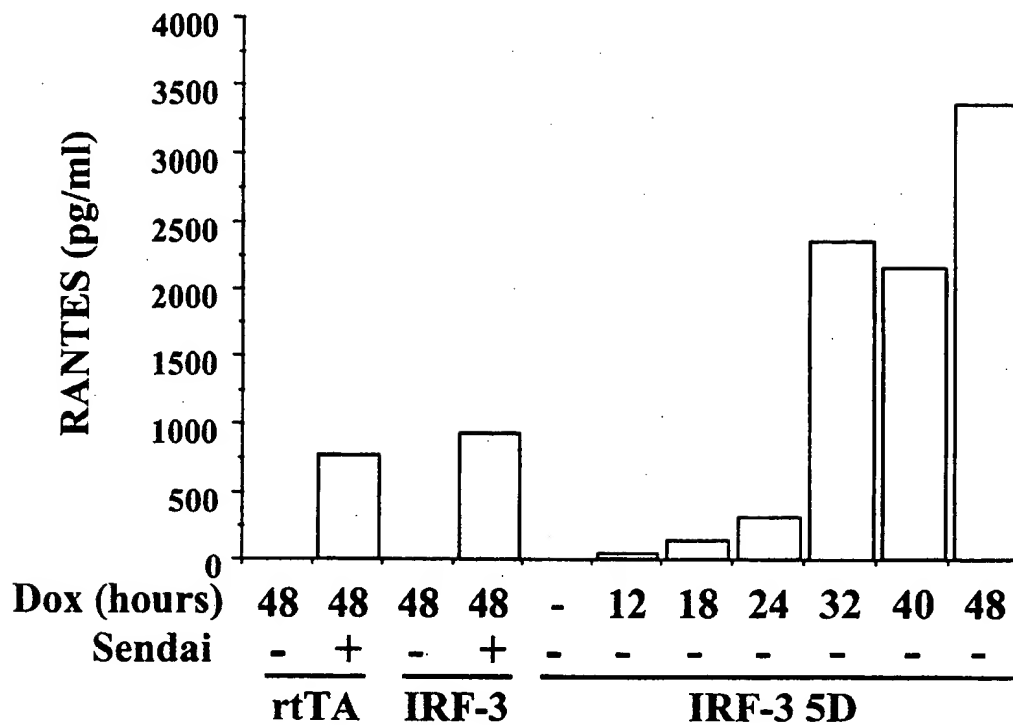
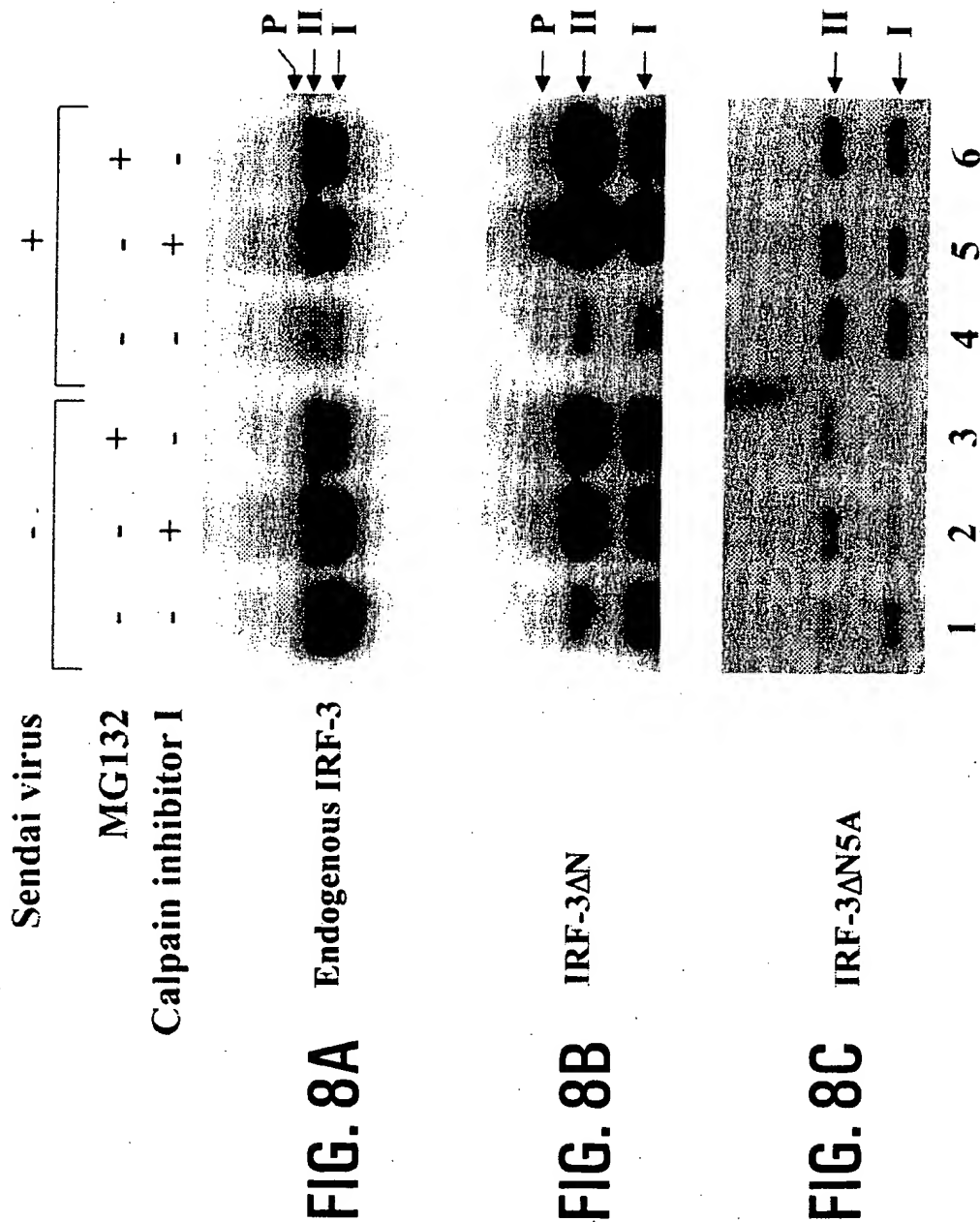


FIG. 7D

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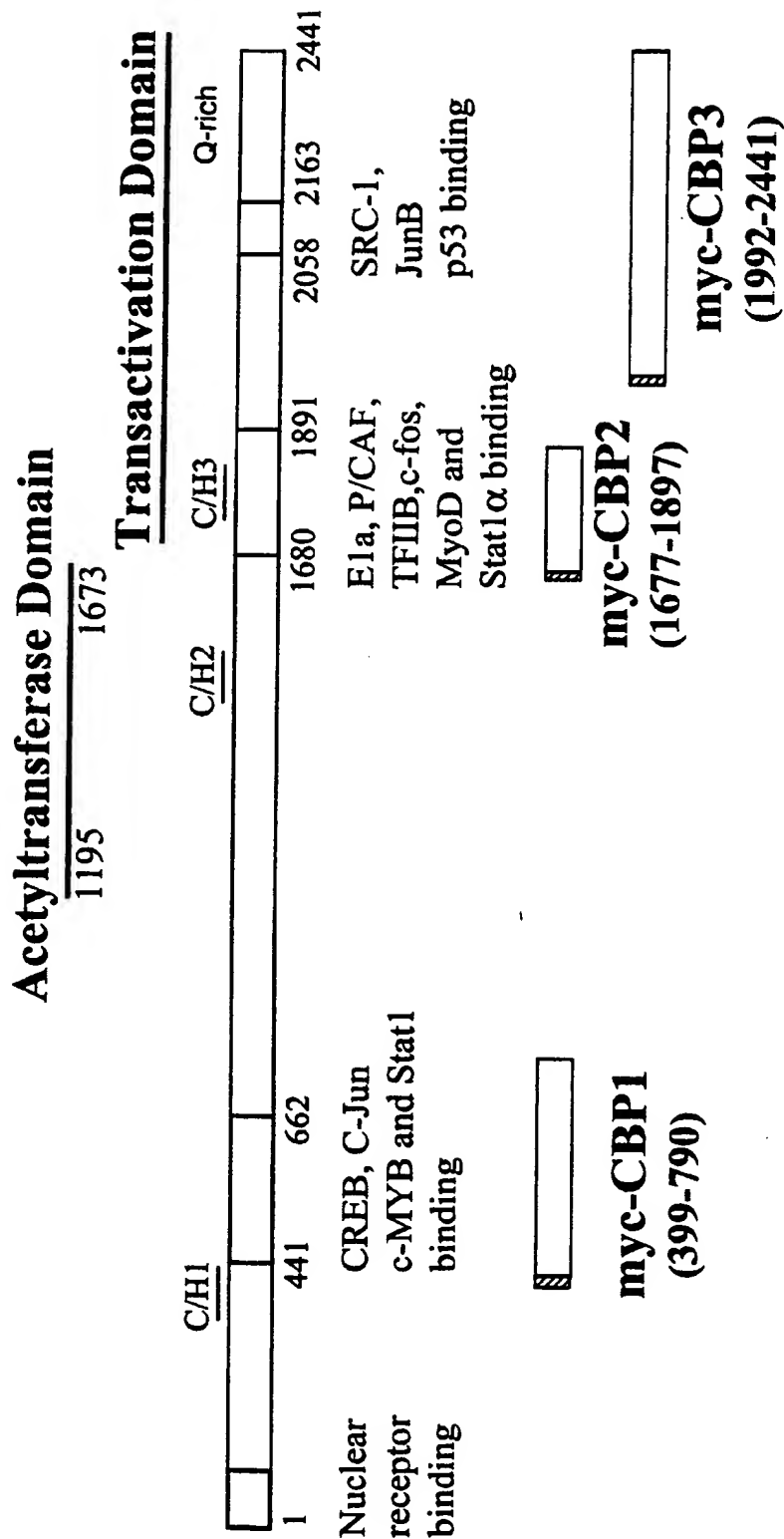


FIG. 9A

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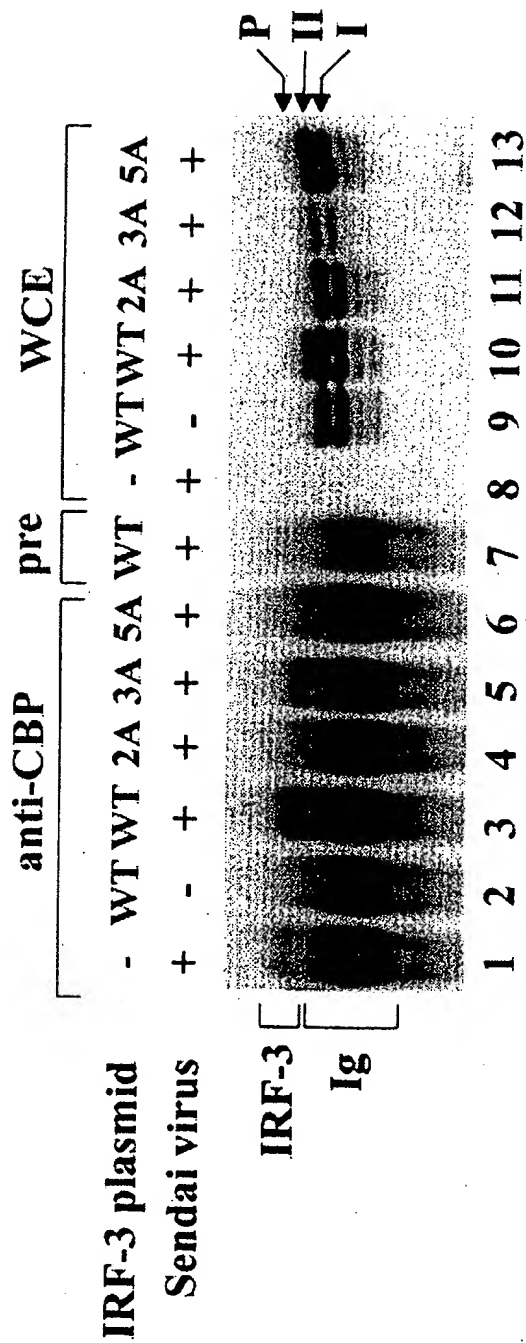


FIG. 9B

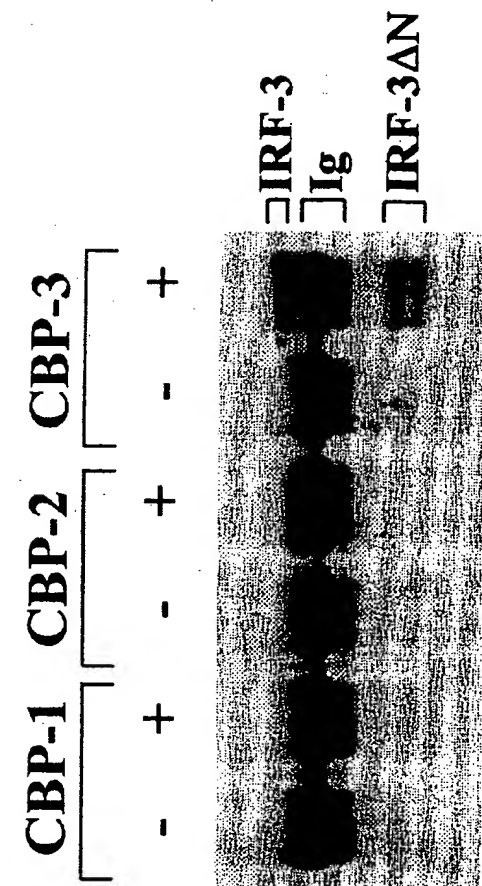


FIG. 9C

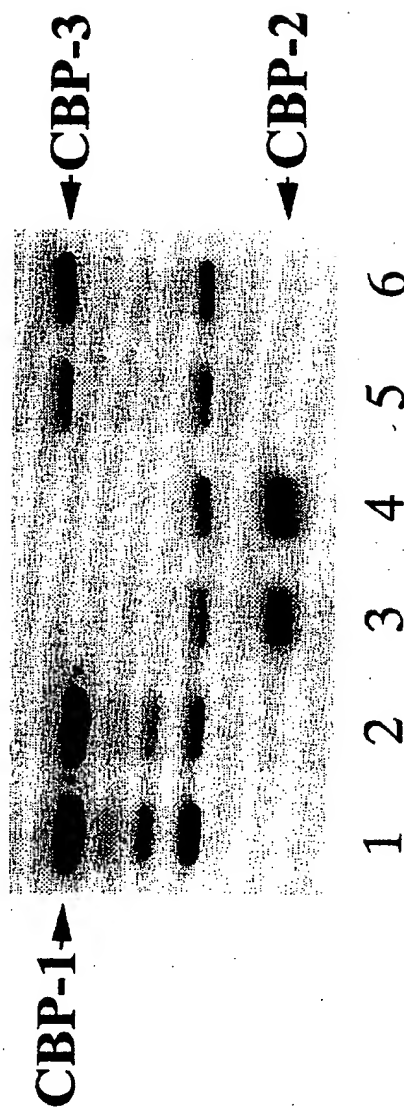


FIG. 9D

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```

      10      20      30      40
      *      *      *      *
ATG GGA ACC CCA AAG CCA CGG ATC CTG CCC TGG CTG GTG TCG CAG CTG
TAC CCT TGG GGT TTC GGT GCC TAG GAC GGG ACC GAC CAC AGC GTC GAC
M   G   T   P   K   P   R   I   L   P   W   L   V   S   Q   L>

50      60      70      80      90
*      *      *      *      *
GAC CTG GGG CAA CTG GAG GGC GTG GCC TGG GTG AAC AAG AGC CGC ACG
CTG GAC CCC GTT GAC CTC CCG CAC CGG ACC CAC TTG TTC TCG GCG TGC
D   L   G   Q   L   E   G   V   A   W   V   N   K   S   R   T>

100     110     120     130     140
*      *      *      *      *
CGC TTC CGC ATC CCT TGG AAG CAC GGC CTA CGG CAG GAT GCA CAG CAG
GCG AAG GCG TAG GGA ACC TTC GTG CCG GAT GCC GTC CTA CGT GTC GTC
R   F   R   I   P   W   K   H   G   L   R   Q   D   A   Q   Q>

150     160     170     180     190
*      *      *      *      *
GAG GAT TTC GGA ATC TTC CAG GCC TGG GCC GAG GCC ACT GGT GCA TAT
CTC CTA AAG CCT TAG AAG GTC CGG ACC CGG CTC CGG TGA CCA CGT ATA
E   D   F   G   I   F   Q   A   W   A   E   A   T   G   A   Y>

200     210     220     230     240
*      *      *      *      *
GTT CCC GGG AGG GAT AAG CCA GAC CTG CCA ACC TGG AAG AGG AAT TTC
CAA GGG CCC TCC CTA TTC GGT CTG GAC GGT TGG ACC TTC TCC TTA AAG
V   P   G   R   D   K   P   D   L   P   T   W   K   R   N   F>

250     260     270     280
*      *      *      *
CGC TCT GCC CTC AAC CGC AAA GAA GGG TTG CGT TTA GCA GAG GAC CGG
GCG AGA CGG GAG TTG GCG TTT CTT CCC AAC GCA AAT CGT CTC CTG GCC
R   S   A   L   N   R   K   E   G   L   R   L   A   E   D   R>

290     300     310     320     330
*      *      *      *      *
AGC AAG GAC CCT CAC GAC CCA CAT AAA ATC TAC GAG TTT GTG AAC TCA
TCG TTC CTG GGA GTG CTG GGT GTA TTT TAG ATG CTC AAA CAC TTG AGT
S   K   D   P   H   D   P   H   K   I   Y   E   F   V   N   S>

340     350     360     370     380
*      *      *      *      *
GGA GTT GGG GAC TTT TCC CAG CCA GAC ACC TCT CCG GAC ACC AAT GGT
CCT CAA CCC CTG AAA AGG GTC GGT CTG TGG AGA GGC CTG TGG TTA CCA
G   V   G   D   F   S   Q   P   D   T   S   P   D   T   N   G>

390     400     410     420     430
*      *      *      *      *
GGA GGC AGT ACT TCT GAT ACC CAG GAA GAC ATT CTG GAT GAG TTA CTG
CCT CCG TCA TGA AGA CTA TGG GTC CTT CTG TAA GAC CTA CTC AAT GAC
G   G   S   T   S   D   T   Q   E   D   I   L   D   E   L   L>

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FIG. 10

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440 *					450 *					460 *					470 *					480 *				
GGT	AAC	ATG	GTG	TTG	GCC	CCA	CTC	CCA	GAT	CCG	GGA	CCC	CCA	AGC	CTG									
CCA	TTG	TAC	CAC	AAC	CGG	GGT	GAG	GGT	CTA	GGC	CCT	GGG	GGT	TCG	GAC									
G	N	M	V	L	A	P	L	P	D	P	G	P	P	S	L>									
490 *					500 *					510 *					520 *									
GCT	GTA	GCC	CCT	GAG	CCC	TGC	CCT	CAG	CCC	CTG	CGG	AGC	CCC	AGC	TTG									
CGA	CAT	CGG	GGA	CTC	GGG	ACG	GGA	GTC	GGG	GAC	GCC	TCG	GGG	TCG	AAC									
A	V	A	P	E	P	C	P	Q	P	L	R	S	P	S	L>									
530 *					540 *					550 *					560 *					570 *				
GAC	AAT	CCC	ACT	CCC	TTC	CCA	AAC	CTG	GGG	CCC	TCT	GAG	AAC	CCA	CTG									
CTG	TTA	GGG	TGA	GGG	AAG	GGT	TTG	GAC	CCC	GGG	AGA	CTC	TTG	GGT	GAC									
D	N	P	T	P	F	P	N	L	G	P	S	E	N	P	L>									
580 *					590 *					600 *					610 *					620 *				
AAG	CGG	CTG	TTG	GTG	CCG	GGG	GAA	GAG	TGG	GAG	TTC	GAG	GTG	ACA	GCC									
TTC	GCC	GAC	AAC	CAC	GGC	CCC	CTT	CTC	ACC	CTC	AAG	CTC	CAC	TGT	CGG									
K	R	L	L	V	P	G	E	E	W	E	F	E	V	T	A>									
630 *					640 *					650 *					660 *					670 *				
TTC	TAC	CGG	GGC	CGC	CAA	GTC	TTC	CAG	CAG	ACC	ATC	TCC	TGC	CCG	GAG									
AAG	ATG	GCC	CCG	GCG	GTT	CAG	AAG	GTC	GTC	TGG	TAG	AGG	ACG	GGC	CTC									
F	Y	R	G	R	Q	V	F	Q	Q	T	I	S	C	P	E>									
680 *					690 *					700 *					710 *					720 *				
GGC	CTG	CGG	CTG	GTG	GGG	TCC	GAA	GTG	GGA	GAC	AGG	ACG	CTG	CCT	GGA									
CCG	GAC	GCC	GAC	CAC	CCC	AGG	CTT	CAC	CCT	CTG	TCC	TGC	GAC	GGA	CCT									
G	L	R	L	V	G	S	E	V	G	D	R	T	L	P	G>									
730 *					740 *					750 *					760 *									
TGG	CCA	GTC	ACA	CTG	CCA	GAC	CCT	GGC	ATG	TCC	CTG	ACA	GAC	AGG	GGA									
ACC	GGT	CAG	TGT	GAC	GGT	CTG	GGA	CCG	TAC	AGG	GAC	TGT	CTG	TCC	CCT									
W	P	V	T	L	P	D	P	G	M	S	L	T	D	R	G>									
770 *					780 *					790 *					800 *					810 *				
GTG	ATG	AGC	TAC	GTG	AGG	CAT	GTG	CTG	AGC	TGC	CTG	GGT	GGG	GGA	CTG									
CAC	TAC	TCG	ATG	CAC	TCC	GTA	CAC	GAC	TCG	ACG	GAC	CCA	CCC	CCT	GAC									
V	M	S	Y	V	R	H	V	L	S	C	L	G	G	G	L>									
820 *					830 *					840 *					850 *					860 *				
GCT	CTC	TGG	CGG	GCC	GGG	CAG	TGG	CTC	TGG	GCC	CAG	CGG	CTG	GGG	CAC									
CGA	GAG	ACC	GCC	CGG	CCC	GTC	ACC	GAG	ACC	CGG	GTC	GCC	GAC	CCC	GTG									
A	L	W	R	A	G	Q	W	L	W	A	Q	R	L	G	H>									
870 *					880 *					890 *					900 *					910 *				
TGC	CAC	ACA	TAC	TGG	GCA	GTG	AGC	GAG	GAG	CTG	CTC	CCC	AAC	AGC	GGG									
ACG	GTG	TGT	ATG	ACC	CGT	CAC	TCG	CTC	CTC	GAC	GAG	GGG	TTG	TCG	CCC									
C	H	T	Y	W	A	V	S	E	E	L	L	P	N	S	G>									

FIG. 10
CONTINUED

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          920          930          940          950          960
          *          *          *          *          *
CAT GGG CCT GAT GGC GAG GTC CCC AAG GAC AAG GAA GGA GGC GTG TTT
GTA CCC GGA CTA CCG CTC CAG GGG TTC CTG TTC CTT CCT CCG CAC AAA
H   G   P   D   G   E   V   P   K   D   K   E   G   G   V   F>

          970          980          990          1000
          *          *          *          *
GAC CTG GGG CCC TTC ATT GTA GAT CTG ATT ACC TTC ACG GAA GGA AGC
CTG GAC CCC GGG AAG TAA CAT CTA GAC TAA TGG AAG TGC CTT CCT TCG
D   L   G   P   F   I   V   D   L   I   T   F   T   E   G   S>

1010          1020          1030          1040          1050
*          *          *          *          *
GGA CGC TCA CCA CGC TAT GCC CTC TGG TTC TGT GTG GGG GAG TCA TGG
CCT GCG AGT GGT GCG ATA CGG GAG ACC AAG ACA CAC CCC CTC AGT ACC
G   R   S   P   R   Y   A   L   W   F   C   V   G   E   S   W>

1060          1070          1080          1090          1100
*          *          *          *          *
CCC CAG GAC CAG CCG TGG ACC AAG AGG CTC GTG ATG GTC AAG GTT GTG
GGG GTC CTG GTC GGC ACC TGG TTC TCC GAG CAC TAC CAG TTC CAA CAC
P   Q   D   Q   P   W   T   K   R   L   V   M   V   K   V   V>

1110          1120          1130          1140          1150
*          *          *          *          *
CCC ACG TGC CTC AGG GCC TTG GTA GAA ATG GCC CGG GTA GGG GGT GCC
GGG TGC ACG GAG TCC CGG AAC CAT CTT TAC CGG GCC CAT CCC CCA CGG
P   T   C   L   R   A   L   V   E   M   A   R   V   G   G   A>

1160          1170          1180          1190          1200
*          *          *          *          *
TCC TCC CTG GAG AAT ACT GTG GAC CTG CAC ATT GAC AAC GAC CAC CCA
AGG AGG GAC CTC TTA TGA CAC CTG GAC GTG TAA CTG TTG CTG GTG GGT
S   S   L   E   N   T   V   D   L   H   I   D   N   D   H   P>

1210          1220          1230          1240
*          *          *          *
CTC GAC CTC GAC GAC GAC CAG TAC AAG GCC TAC CTG CAG GAC TTG GTG
GAG CTG GAG CTG CTG CTG GTC ATG TTC CGG ATG GAC GTC CTG AAC CAC
L   D   L   D   D   D   Q   Y   K   A   Y   L   Q   D   L   V>

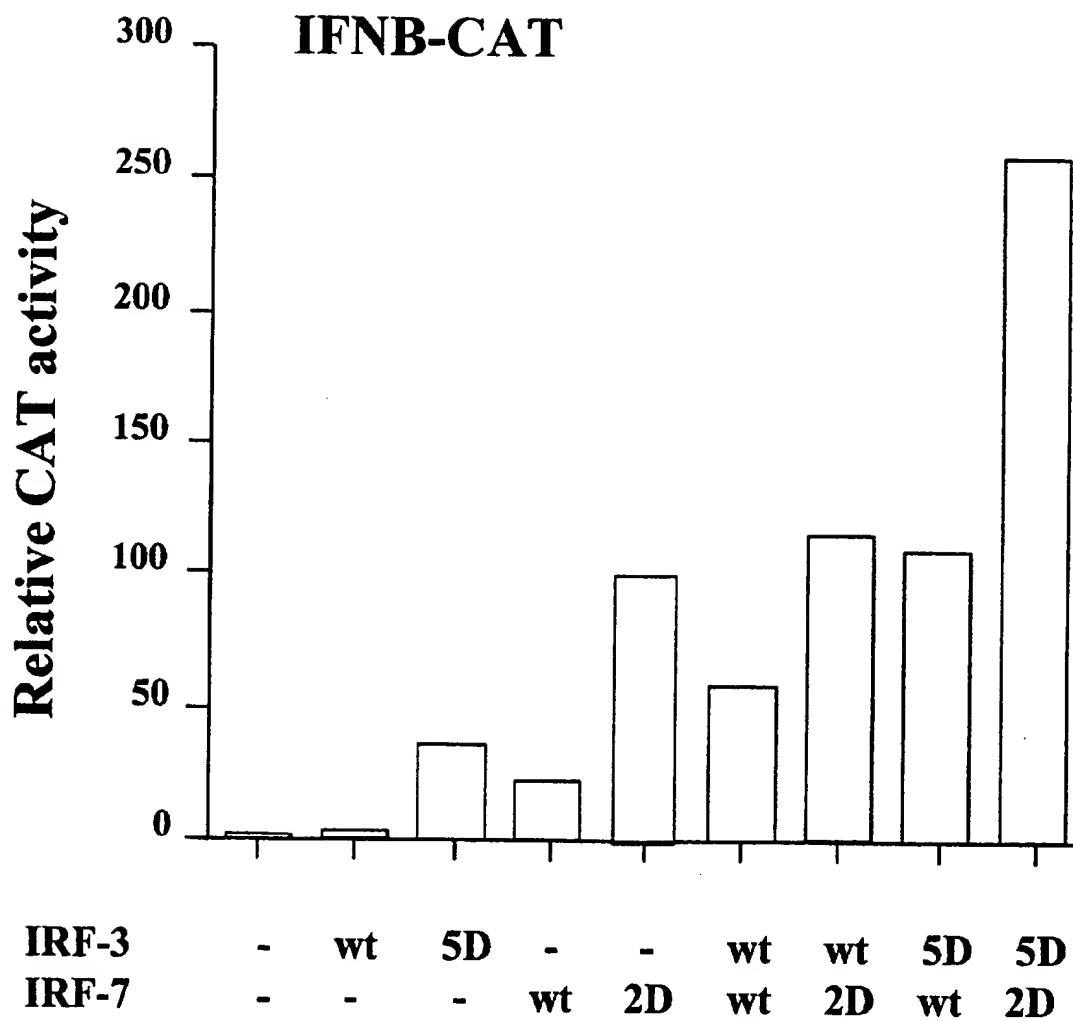
1250          1260          1270          1280
*          *          *          *
GAG GGC ATG GAT TTC CAG GGC CCT GGG GAG AGC TGA
CTC CCG TAC CTA AAG GTC CCG GGA CCC CTC TCG ACT
E   G   M   D   F   Q   G   P   G   E   S>

```

FIG. 10
CONTINUED

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**FIG. 11**

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      10      20      30      40
      *      *      *      *
ATG GCC TTG GCT CCT GAG AGG GCA GCC CCA CGC GTG CTG TTC GGA GAG
TAC CGG AAC CGA GGA CTC TCC CGT CGG GGT GCG CAC GAC AAG CCT CTC
M  A  L  A  P  E  R  A  A  P  R  V  L  F  G  E>

50      60      70      80      90
*      *      *      *      *
TGG CTC CTT GGA GAG ATC AGC AGC GGC TGC TAT GAG GGG CTG CAG TGG
ACC GAG GAA CCT CTC TAG TCG TCG CCG ACG ATA CTC CCC GAC GTC ACC
W  L  L  G  E  I  S  S  G  C  Y  E  G  L  Q  W>

100     110     120     130     140
*      *      *      *      *
CTG GAC GAG GCC CGC ACC TGT TTC CGC GTG CCC TGG AAG CAC TTC GCG
GAC CTG CTC CGG GCG TGG ACA AAG GCG CAC GGG ACC TTC GTG AAG CGC
L  D  E  A  R  T  C  F  R  V  P  W  K  H  F  A>

150     160     170     180     190
*      *      *      *      *
CGC AAG GAC CTG AGC GAG GCC GAC GCG CGC ATC TTC AAG GCC TGG GCT
GCG TTC CTG GAC TCG CTC CGG CTG CGC GCG TAG AAG TTC CGG ACC CGA
R  K  D  L  S  E  A  D  A  R  I  F  K  A  W  A>

200     210     220     230     240
*      *      *      *      *
GTG GCC CGC GGC AGG TGG CCG CCT AGC AGC AGG GGA GGT GGC CCG CCC
CAC CGG GCG CCG TCC ACC GGC GGA TCG TCG TCC CCT CCA CCG GGC GGG
V  A  R  G  R  W  P  P  S  S  R  G  G  G  P  P>

250     260     270     280
*      *      *      *
CCC GAG GCT GAG ACT GCG GAG CGC GCC GGC TGG AAA ACC AAC TTC CGC
GGG CTC CGA CTC TGA CGC CTC GCG CGG CCG ACC TTT TGG TTG AAG GCG
P  E  A  E  T  A  E  R  A  G  W  K  T  N  F  R>

290     300     310     320     330
*      *      *      *      *
TGC GCA CTG CGC AGC ACG CGT CGC TTC GTG ATG CTG CGG GAT AAC TCG
ACG CGT GAC GCG TCG TGC GCA GCG AAG CAC TAC GAC GCC CTA TTG AGC
C  A  L  R  S  T  R  R  F  V  M  L  R  D  N  S>

340     350     360     370     380
*      *      *      *      *
GGG GAC CCG GCC GAC CCG CAC AAG GTG TAC GCG CTC AGC CGG GAG CTG
CCC CTG GGC CGG CTG GGC GTG TTC CAC ATG CGC GAG TCG GCC CTC GAC
G  D  P  A  D  P  H  K  V  Y  A  L  S  R  E  L>

```

FIG. 12

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390 400 410 420 430
 * * * * *
 TGC TGG CGA GAA GGC CCA GGC ACG GAC CAG ACT GAG GCA GAG GCC CCC
 ACG ACC GCT CTT CCG GGT CCG TGC CTG GTC TGA CTC CGT CTC CGG GGG
 C W R E G P G T D Q T E A E A P>

440 450 460 470 480
 * * * * *
 GCA GCT GTC CCA CCA CCA CAG GGT GGG CCC CCA GGG CCA TTC TTG GCA
 CGT CGA CAG GGT GGT GGT GTC CCA CCC GGG GGT CCC GGT AAG AAC CGT
 A A V P P P Q G G P P G P F L A>

490 500 510 520
 * * * *
 CAC ACA CAT GCT GGA CTC CAA GCC CCA GGC CCC CTC CCT GCC CCA GCT
 GTG TGT GTA CGA CCT GAG GTT CGG GGT CCG GGG GAG GGA CGG GGT CGA
 H T H A G L Q A P G P L P A P A>

530 540 550 560 570
 * * * * *
 GGT GAC AAG GGG GAC CTC CTG CTC CAG GCA GTG CAA CAG AGC TGC CTG
 CCA CTG TTC CCC CTG GAG GAC GAG GTC CGT CAC GTT GTC TCG ACG GAC
 G D K G D L L L Q A V Q Q S C L>

580 590 600 610 620
 * * * * *
 GCA GAC CAT CTG CTG ACA GCG TCA TGG GGG GCA GAT CCA GTC CCA ACC
 CGT CTG GTA GAC GAC TGT CGC AGT ACC CCC CGT CTA GGT CAG GGT TGG
 A D H L L T A S W G A D P V P T>

630 640 650 660 670
 * * * * *
 AAG GCT CCT GGA GAG GGA CAA GAA GGG CTT CCC CTG ACT GGG GCC TGT
 TTC CGA GGA CCT CTC CCT GTT CTT CCC GAA GGG GAC TGA CCC CGG ACA
 K A P G E G Q E G L P L T G A C>

680 690 700 710 720
 * * * * *
 GCT GGA GGC CCA GGG CTC CCT GCT GGG GAG CTG TAC GGG TGG GCA GTA
 CGA CCT CCG GGT CCC GAG GGA CGA CCC CTC GAC ATG CCC ACC CGT CAT
 A G G P G L P A G E L Y G W A V>

730 740 750 760
 * * * *
 GAG ACG ACC CCC AGC CCC GGG CCC CAG CCC GCG GCA CTA ACG ACA GGC
 CTC TGC TGG GGG TCG GGG CCC GGG GTC GGG CGC CGT GAT TGC TGT CCG
 E T T P S P G P Q P A A L T T G>

FIG. 12
CONTINUED

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770      780      790      800      810
*        *        *        *        *
GAG GCC GCG GCC CCA GAG TCC CCG CAC CAG GCA GAG CCG TAC CTG TCA
CTC CGG CGC CGG GGT CTC AGG GGC GTG GTC CGT CTC GGC ATG GAC AGT
E   A   A   A   P   E   S   P   H   Q   A   E   P   Y   L   S>

      820      830      840      850      860
*        *        *        *        *
CCC TCC CCA AGC GCC TGC ACC GCG GTG CAA GAG CCC AGC CCA GGG GCG
GGG AGG GGT TCG CGG ACG TGG CGC CAC GTT CTC GGG TCG GGT CCC CGC
P   S   P   S   A   C   T   A   V   Q   E   P   S   P   G   A>

      870      880      890      900      910
*        *        *        *        *
CTG GAC GTG ACC ATC ATG TAC AAG GGC CGC ACG GTG CTG CAG AAG GTG
GAC CTG CAC TGG TAG TAC ATG TTC CCG GCG TGC CAC GAC GTC TTC CAC
L   D   V   T   I   M   Y   K   G   R   T   V   L   Q   K   V>

      920      930      940      950      960
*        *        *        *        *
GTG GGA CAC CCG AGC TGC ACG TTC CTA TAC GGC CCC CCA GAC CCA GCT
CAC CCT GTG GGC TCG ACG TGC AAG GAT ATG CCG GGG GGT CTG GGT CGA
V   G   H   P   S   C   T   F   L   Y   G   P   P   D   P   A>

      970      980      990      1000
*        *        *        *
GTC CGG GCC ACA GAC CCC CAG CAG GTA GCA TTC CCC AGC CCT GCC GAG
CAG GCC CGG TGT CTG GGG GTC GTC CAT CGT AAG GGG TCG GGA CGG CTC
V   R   A   T   D   P   Q   Q   V   A   F   P   S   P   A   E>

1010      1020      1030      1040      1050
*        *        *        *        *
CTC CCG GAC CAG AAG CAG CTG CGC TAC ACG GAG GAA CTG CTG CGG CAC
GAG GGC CTG GTC TTC GTC GAC GCG ATG TGC CTC CTT GAC GAC GCC GTG
L   P   D   Q   K   Q   L   R   Y   T   E   E   L   L   R   H>

      1060      1070      1080      1090      1100
*        *        *        *        *
GTG GCC CCT GGG TTG CAC CTG GAG CTT CGG GGG CCA CAG CTG TGG GCC
CAC CGG GGA CCC AAC GTG GAC CTC GAA GCC CCC GGT GTC GAC ACC CGG
V   A   P   G   L   H   L   E   L   R   G   P   Q   L   W   A>

      1110      1120      1130      1140      1150
*        *        *        *        *
CGG CGC ATG GGC AAG TGC AAG GTG TAC TGG GAG GTG GGC GGA CCC CCA
GCC GCG TAC CCG TTC ACG TTC CAC ATG ACC CTC CAC CCG CCT GGG GGT
R   R   M   G   K   C   K   V   Y   W   E   V   G   G   P   P>

```

FIG. 12
CONTINUED

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1160				1170				1180				1190				1200	
*				*				*				*				*	
GGC	TCC	GCC	AGC	CCC	TCC	ACC	CCA	GCC	TGC	CTG	CTG	CCT	CGG	AAC	TGT		
CCG	AGG	CGG	TCG	GGG	AGG	TGG	GGT	CGG	ACG	GAC	GAC	GGA	GCC	TTG	ACA		
G	S	A	S	P	S	T	P	A	C	L	L	P	R	N	C>		
1210				1220				1230				1240					
*				*				*				*					
GAC	ACC	CCC	ATC	TTC	GAC	TTC	AGA	GTC	TTC	TTC	CAA	GAG	CTG	GTG	GAA		
CTG	TGG	GGG	TAG	AAG	CTG	AAG	TCT	CAG	AAG	AAG	GTT	CTC	GAC	CAC	CTT		
D	T	P	I	F	D	F	R	V	F	F	Q	E	L	V	E>		
1250				1260				1270				1280				1290	
*				*				*				*				*	
TTC	CGG	GCA	CGG	CAG	CGC	CGT	GGC	TCC	CCA	CGC	TAT	ACC	ATC	TAC	CTG		
AAG	GCC	CGT	GCC	GTC	GCG	GCA	CCG	AGG	GGT	GCG	ATA	TGG	TAG	ATG	GAC		
F	R	A	R	Q	R	R	G	S	P	R	Y	T	I	Y	L>		
1300				1310				1320				1330				1340	
*				*				*				*				*	
GGC	TTC	GGG	CAG	GAC	CTG	TCA	GCT	GGG	AGG	CCC	AAG	GAG	AAG	AGC	CTG		
CCG	AAG	CCC	GTC	CTG	GAC	AGT	CGA	CCC	TCC	GGG	TTC	CTC	TTC	TCG	GAC		
G	F	G	Q	D	L	S	A	G	R	P	K	E	K	S	L>		
1350				1360				1370				1380				1390	
*				*				*				*				*	
GTC	CTG	GTG	AAG	CTG	GAA	CCC	TGG	CTG	TGC	CGA	GTG	CAC	CTA	GAG	GGC		
CAG	GAC	CAC	TTC	GAC	CTT	GGG	ACC	GAC	ACG	GCT	CAC	GTG	GAT	CTC	CCG		
V	L	V	K	L	E	P	W	L	C	R	V	H	L	E	G>		
1400				1410				1420				1430				1440	
*				*				*				*				*	
ACG	CAG	CGT	GAG	GGT	GTG	TCT	TCC	CTG	GAT	AGC	AGC	GAC	CTC	GAC	CTC		
TGC	GTC	GCA	CTC	CCA	CAC	AGA	AGG	GAC	CTA	TCG	TCG	CTG	GAG	CTG	GAG		
T	Q	R	E	G	V	S	S	L	D	S	S	D	L	D	L>		
1450				1460				1470				1480					
*				*				*				*					
TGC	CTG	TCC	AGC	GCC	AAC	AGC	CTC	TAT	GAC	GAC	ATC	GAG	TGC	TTC	CTT		
ACG	GAC	AGG	TCG	CGG	TTG	TCG	GAG	ATA	CTG	CTG	TAG	CTC	ACG	AAG	GAA		
C	L	S	S	A	N	S	L	Y	D	D	I	E	C	F	L>		
1490				1500				1510									
*				*				*									
ATG	GAG	CTG	GAG	CAG	CCC	GCC	TAG										
TAC	CTC	GAC	CTC	GTC	GGG	CGG	ATC										
M	E	L	E	Q	P	A>											

FIG. 12
CONTINUED

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10 20 30 40
 * * * *
 ATG GCC TTG GCT CCT GAG AGG GCA GCC CCA CGC GTG CTG TTC GGA GAG
 TAC CGG AAC CGA GGA CTC TCC CGT CGG GGT GCG CAC GAC AAG CCT CTC
 M A L A P E R A A P R V L F G E>

 50 60 70 80 90
 * * * * *
 TGG CTC CTT GGA GAG ATC AGC AGC GGC TGC TAT GAG GGG CTG CAG TGG
 ACC GAG GAA CCT CTC TAG TCG TCG CCG ACG ATA CTC CCC GAC GTC ACC
 W L L G E I S S G C Y E G L Q W>

 100 110 120 130 140
 * * * * *
 CTG GAC GAG GCC CGC ACC TGT TTC CGC GTG CCC TGG AAG CAC TTC GCG
 GAC CTG CTC CGG GCG TGG ACA AAG GCG CAC GGG ACC TTC GTG AAG CGC
 L D E A R T C F R V P W K H F A>

 150 160 170 180 190
 * * * * *
 CGC AAG GAC CTG AGC GAG GCC GAC GCG CGC ATC TTC AAG GCC TGG GCT
 GCG TTC CTG GAC TCG CTC CGG CTG CGC GCG TAG AAG TTC CGG ACC CGA
 R K D L S E A D A R I F K A W A>

 200 210 220 230 240
 * * * * *
 GTG GCC CGC GGC AGG TGG CCG CCT AGC AGC AGG GGA GGT GGC CCG CCC
 CAC CGG GCG CCG TCC ACC GGC GGA TCG TCG TCC CCT CCA CCG GGC GGG
 V A R G R W P P S S R G G G P P>

 250 260 270 280
 * * * *
 CCC GAG GCT GAG ACT GCG GAG CGC GCC GGC TGG AAA ACC AAC TTC CGC
 GGG CTC CGA CTC TGA CGC CTC GCG CGG CCG ACC TTT TGG TTG AAG GCG
 P E A E T A E R A G W K T N F R>

 290 300 310 320 330
 * * * * *
 TGC GCA CTG CGC AGC ACG CGT CGC TTC GTG ATG CTG CGG GAT AAC TCG
 ACG CGT GAC GCG TCG TGC GCA GCG AAG CAC TAC GAC GCC CTA TTG AGC
 C A L R S T R R F V M L R D N S>

FIG. 13

T 0 4 2 9 0 : 5 9 6 4 7 9 6 5

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340 350 360 370 380
* * * * *
GGG GAC CCG GCC GAC CCG CAC AAG GTG TAC GCG CTC AGC CGG GAG CTG
CCC CTG GGC CGG CTG GGC GTG TTC CAC ATG CGC GAG TCG GCC CTC GAC
G D P A D P H K V Y A L S R E L>

390 400 410 420 430
* * * * *
TGC TGG CGA GAA GGC CCA GGC ACG GAC CAG ACT GAG GCA GAG GCC CCC
ACG ACC GCT CTT CCG GGT CCG TGC CTG GTC TGA CTC CGT CTC CGG GGG
C W R E G P G T D Q T E A E A P>

440 450 460 470 480
* * * * *
GCA GCT GTC CCA CCA CCA CAG GGT GGG CCC CCA GGG CCA TTC TTG GCA
CGT CGA CAG GGT GGT GGT GTC CCA CCC GGG GGT CCC GGT AAG AAC CGT
A A V P P P Q G G P P G P F L A>

490 500 510 520
* * * *
CAC ACA CAT GCT GGA CTC CAA GCC CCA GGC CCC CTC CCT GCC CCA GCT
GTG TGT GTA CGA CCT GAG GTT CGG GGT CCG GGG GAG GGA CGG GGT CGA
H T H A G L Q A P G P L P A P A>

530 540 550 560 570
* * * * *
GGT GAC AAG GGG GAC CTC CTG CTC CAG GCA GTG CAA CAG AGC TGC CTG
CCA CTG TTC CCC CTG GAG GAC GAG GTC CGT CAC GTT GTC TCG ACG GAC
G D K G D L L L Q A V Q Q S C L>

580 590 600 610 620
* * * * *
GCA GAC CAT CTG CTG ACA GCG TCA TGG GGG GCA GAT CCA GTC CCA ACC
CGT CTG GTA GAC GAC TGT CGC AGT ACC CCC CGT CTA GGT CAG GGT TGG
A D H L L T A S W G A D P V P T>

630 640 650 660 670
* * * * *
AAG GCT CCT GGA GAG GGA CAA GAA GGG CTT CCC CTG ACT GGG GCC TGT
TTC CGA GGA CCT CTC CCT GTT CTT CCC GAA GGG GAC TGA CCC CGG ACA
K A P G E G Q E G L P L T G A C>

680 690 700 710 720
* * * * *
GCT GGA GGC CCA GGG CTC CCT GCT GGG GAG CTG TAC GGG TGG GCA GTA
CGA CCT CCG GGT CCC GAG GGA CGA CCC CTC GAC ATG CCC ACC CGT CAT
A G G P G L P A G E L Y G W A V>

FIG. 13
CONTINUED

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730 740 750 760
 * * * *
 GAG ACG ACC CCC AGC CCC ACT TCT GAT ACC CAG GAA GAC ATT CTG GAT
 CTC TGC TGG GGG TCG GGG TGA AGA CTA TGG GTC CTT CTG TAA GAC CTA
 E T T P S P T S D T Q E D I L D>

770 780 790 800 810
 * * * * *
 GAG TTA CTG GGT AAC ATG GTG TTG GCC CCA CTC CCA GAT CCG GGA CCC
 CTC AAT GAC CCA TTG TAC CAC AAC CGG GGT GAG GGT CTA GGC CCT GGG
 E L L G N M V L A P L P D P G P>

820 830 840 850 860
 * * * * *
 CCA AGC CTG GCT GTA GCC CCT GAG CCC TGC CCT CAG CCC CTG CGG AGC
 GGT TCG GAC CGA CAT CGG GGA CTC GGG ACG GGA GTC GGG GAC GCC TCG
 P S L A V A P E P C P Q P L R S>

870 880 890 900 910
 * * * * *
 CCC AGC TTG GAC AAT CCC ACT CCC TTC CCA AAC CTG GGG CCC TCT GAG
 GGG TCG AAC CTG TTA GGG TGA GGG AAG GGT TTG GAC CCC GGG AGA CTC
 P S L D N P T P F P N L G P S E>

920 930 940 950 960
 * * * * *
 AAC CCA CTG AAG CGG CTG TTG GTG CCG GGG GAA GAG TGG GAG TTC GAG
 TTG GGT GAC TTC GCC GAC AAC CAC GGC CCC CTT CTC ACC CTC AAG CTC
 N P L K R L L V P G E E W E F E>

970 980 990 1000
 * * * *
 GTG ACA GCC TTC TAC CGG GGC CGC CAA GTC TTC CAG CAG ACC ATC TCC
 CAC TGT CGG AAG ATG GCC CCG GCG GTT CAG AAG GTC GTC TGG TAG AGG
 V T A F Y R G R Q V F Q Q T I S>

1010 1020 1030 1040 1050
 * * * * *
 TGC CCG GAG GGC CTG CGG CTG GTG GGG TCC GAA GTG GGA GAC AGG ACG
 ACG GGC CTC CCG GAC GCC GAC CAC CCC AGG CTT CAC CCT CTG TCC TGC
 C P E G L R L V G S E V G D R T>

1060 1070 1080 1090 1100
 * * * * *
 CTG CCT GGA TGG CCA GTC ACA CTG CCA GAC CCT GGC ATG TCC CTG ACA
 GAC GGA CCT ACC GGT CAG TGT GAC GGT CTG GGA CCG TAC AGG GAC TGT
 L P G W P V T L P D P G M S L T>

FIG. 13
CONTINUED

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1110 1120 1130 1140 1150
* * * * *
GAC AGG GGA GTG ATG AGC TAC GTG AGG CAT GTG CTG AGC TGC CTG GGT
CTG TCC CCT CAC TAC TCG ATG CAC TCC GTA CAC GAC TCG ACG GAC CCA
D R G V M S Y V R H V L S C L G>

1160 1170 1180 1190 1200
* * * * *
GGG GGA CTG GCT CTC TGG CGG GCC GGG CAG TGG CTC TGG GCC CAG CGG
CCC CCT GAC CGA GAG ACC GCC CGG CCC GTC ACC GAG ACC CGG GTC GCC
G G L A L W R A G Q W L W A Q R>

1210 1220 1230 1240
* * * *
CTG GGG CAC TGC CAC ACA TAC TGG GCA GTG AGC GAG GAG CTG CTC CCC
GAC CCC GTG ACG GTG TGT ATG ACC CGT CAC TCG CTC CTC GAC GAG GGG
L G H C H T Y W A V S E E L L P>

1250 1260 1270 1280 1290
* * * * *
AAC AGC GGG CAT GGG CCT GAT GGC GAG GTC CCC AAG GAC AAG GAA GGA
TTG TCG CCC GTA CCC GGA CTA CCG CTC CAG GGG TTC CTG TTC CTT CCT
N S G H G P D G E V P K D K E G>

1300 1310 1320 1330 1340
* * * * *
GGC GTG TTT GAC CTG GGG CCC TTC ATT GTA GAT CTG ATT ACC TTC ACG
CCG CAC AAA CTG GAC CCC GGG AAG TAA CAT CTA GAC TAA TGG AAG TGC
G V F D L G P F I V D L I T F T>

1350 1360 1370 1380 1390
* * * * *
GAA GGA AGC GGA CGC TCA CCA CGC TAT GCC CTC TGG TTC TGT GTG GGG
CTT CCT TCG CCT GCG AGT GGT GCG ATA CGG GAG ACC AAG ACA CAC CCC
E G S G R S P R Y A L W F C V G>

1400 1410 1420 1430 1440
* * * * *
GAG TCA TGG CCC CAG GAC CAG CCG TGG ACC AAG AGG CTC GTG ATG GTC
CTC AGT ACC GGG GTC CTG GTC GGC ACC TGG TTC TCC GAG CAC TAC CAG
E S W P Q D Q P W T K R L V M V>

1450 1460 1470 1480
* * * *
AAG GTT GTG CCC ACG TGC CTC AGG GCC TTG GTA GAA ATG GCC CGG GTA
TTC CAA CAC GGG TGC ACG GAG TCC CGG AAC CAT CTT TAC CGG GCC CAT
K V V P T C L R A L V E M A R V>

1490 1500 1510 1520 1530
* * * * *
GGG GGT GCC TCC TCC CTG GAG AAT ACT GTG GAC CTG CAC ATT GAC AAC
CCC CCA CGG AGG AGG GAC CTC TTA TGA CAC CTG GAC GTG TAA CTG TTG
G G A S S L E N T V D L H I D N>

FIG. 13
CONTINUED

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1540		1550		1560		1570		1580
*		*		*		*		*
GAC CAC CCA CTC	GAC CTC	GAC GAC GAC CAG	TAC AAG GCC	TAC CTG CAG				
CTG GTG GGT GAG	CTG GAG CTG CTG CTG	GTC ATG TTC CGG	ATG GAC GTC					
D H P L	D L D D D	Q Y K A	Y L Q>					
1590		1600		1610		1620		
*		*		*		*		
GAC TTG GTG GAG	GGC ATG GAT TTC	CAG GGC CCT GGG	GAG AGC TGA					
CTG AAC CAC CTC	CCG TAC CTA AAG	GTC CCG GGA CCC	CTC TCG ACT					
D L V E	G M D F	Q G P G	E S>					

FIG. 13
CONTINUED

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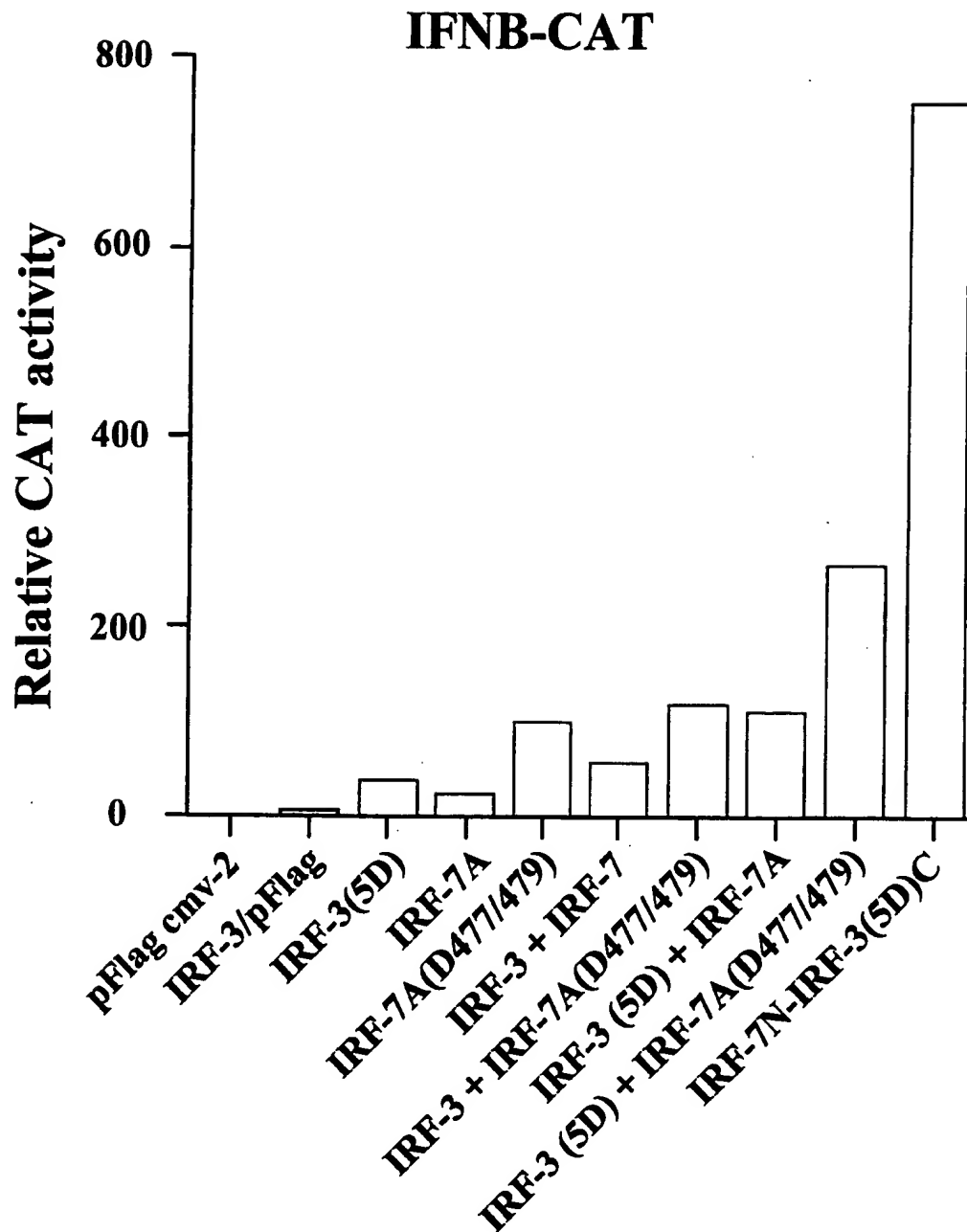


FIG. 14